

## CLAIMS

1. (Currently amended) An image scanning method for a scanner, comprising:  
calculating a calibration parameter responsive to determining that the calibration parameter is not stored in memory;  
using an image capturing element to perform image capturing on a scanning object;  
calibrating the captured image using a preset the calibration parameter to perform compensation and calibration for the captured image; and  
completing image scanning for the object and repeating the using an image capturing element for a subsequent scanning object without further calculating.
2. (Currently amended) The image scanning method of claim 1, further comprising:  
holding the scanning object via a holding board;  
capturing the image of the scanning object via an optical chassis comprising an image capturing element; and  
storing the ~~preset~~ calibration parameter via a control module comprising a read only memory (ROM) and using reading the stored calibration parameter to ~~perform compensation and calibration for~~ calibrate the captured image.
3. (Previously presented) The image scanning method of claim 2, wherein the holding the scanning object comprises holding the scanning object via the holding board comprising glass or acrylic material.
4. (Previously presented) The image scanning method of claim 2, wherein the capturing the image of the scanning object comprises capturing the image of the scanning object via the image capturing element of the optical chassis comprising a charge coupled device (CCD).

5. (Previously presented) The image scanning method of claim 2, further comprising:

projecting on the scanning object via a linear light source to generate a reflecting image reflecting the reflected image via one or more reflecting mirrors; and

refracting the reflected image through a lens to form an image on the image capturing element.

6. (Previously presented) The image scanning method of claim 2, further comprising moving the optical chassis along the holding board to scan the object via a driver.

7. (Currently amended) The image scanning method of claim 2, wherein the storing the preset calibration parameter comprises storing the ~~preset~~ calibration parameter via the control module comprising a selected system file.

8.-14. (Canceled)

15. (Previously presented) An image scanning method for a scanner, comprising:  
determining if a calibration parameter is stored and calculating a calibration parameter if no calibration parameter is stored;

using an image capturing element to perform image capturing on a scanning object;

using the calibration parameter obtained at the determining to perform compensation and calibration for the captured image; and

completing image scanning for the object and repeating said image capturing and said compensation without further performing the determining.

16. (Previously presented) The image scanning method of claim 15, wherein the following are performed when the outcome of the determining is negative:

performing pre-scanning and calculating a calibration parameter; and

storing the calculated calibration parameter in the control module.

17. (Previously presented) The image scanning method of claim 15, further comprising:  
holding the scanning object via a holding board;  
capturing the image of the scanning object via an optical chassis comprising an image capturing element; and  
storing the calibration parameter via a control module, and using the stored calibration parameter to perform compensation and calibration for the captured image.

18. (Previously presented) The image scanning method of claim 17, wherein the holding the scanning object comprises holding the scanning object via the holding board comprising glass or acrylic material.

19. (Previously presented) The image scanning method of claim 17, wherein the capturing the image of the scanning object comprises capturing the image of the scanning object via the image capturing element of the optical chassis comprising a charge coupled device (CCD).

20. (Previously presented) The image scanning method of claim 17, further comprising:  
projecting on the scanning object via a linear light source to generate a reflecting image;  
reflecting the reflected image via one or more reflecting mirrors; and  
refracting the reflected image through a lens to form an image on the image capturing element.

21. (Previously presented) The image scanning method of claim 17, further comprising moving the optical chassis along the holding board to scan the object via a driver.

22. (Previously presented) The image scanning method of claim 17, wherein the storing the calibration parameter comprises storing the calibration parameter via the control module comprising a selected system file.

23. (Currently amended) An article of manufacture, comprising: a storage medium having stored thereon one or more instructions ~~stored thereon~~ that, if when executed by a processor, result in:

calculating a preset calibration parameter responsive to determining that the preset calibration parameter is not stored in memory;

using an image capturing element to perform image capturing on a provided scanning object;

using ~~a~~ the preset calibration parameter to ~~perform compensation and calibration for at least compensate or calibrate~~ the captured image; and

completing image scanning for the object and repeating said using an image capturing element for a subsequent scanning object without further calculating.

24. (Currently amended) The article of claim 23 wherein the instructions, if when executed by a processor, further result in:

storing ~~a~~ the preset calibration parameter via a control module comprising a read only memory (ROM); and

using the stored preset calibration parameter to perform compensation and calibration for the captured image.

25. (Currently amended) The article of claim 23, wherein the instructions, if when executed by a processor, further result in:

storing ~~a~~ the preset calibration parameter via a control module comprising a selected system file; and

using the stored preset calibration parameter to perform compensation and calibration for the captured image.

26.-28. (Canceled)

29. (Currently amended) An article of manufacture, comprising: a storage medium having one or more instructions stored thereon that, ~~if~~ when executed, result in:

determining if a calibration parameter is stored and calculating a calibration parameter if no calibration parameter is stored;

using an image capturing element to perform image capturing on a provided scanning object;

using the calibration parameter obtained at the determining to perform compensation and calibration for the captured image; and

completing image scanning for the object and repeating the image capturing and the compensation without further performing the determining.

30. (Currently amended) The article of claim 29, wherein the instructions, ~~if~~ when executed, further result in the following when the outcome of the determining is negative:

performing pre-scanning and calculating a calibration parameter; and storing the calculated calibration parameter in the control module.

31. (Currently amended) The article of claim 30, wherein the instructions, ~~if~~ when executed, further result in:

storing the calibration parameter via a control module; and

using the stored calibration parameter to perform compensation and calibration for the captured image.

32. (Currently amended) The article of claim 30, wherein the instructions, ~~if~~ when executed, further result in:

storing the calibration parameter via a control module comprising a selected system file; and

using the stored calibration parameter to perform compensation and calibration for the captured image.

33. (Currently amended) An apparatus, comprising:  
means for calculating a calibration parameter prior to image capturing and responsive to determining that the calibration parameter is not stored in memory;  
means for performing image capturing on a provided scanning object;  
means for at least calibrating the captured image using a preset the calibration parameter read from memory to perform compensation and calibration for the captured image; and  
means for completing image scanning for the object without further involving the means for calculating.

34. (Currently amended) The apparatus of claim 33, further comprising:  
means for storing a ~~preset~~ the calibration parameter via a control module comprising a read only memory (ROM); and  
means for using the stored calibration parameter to perform compensation and calibration for the captured image.

35. (Currently amended) The apparatus of claim 33, further comprising:  
means for storing a ~~preset~~ the calibration parameter via a control module comprising a selected system file; and  
means for using the stored calibration parameter to perform compensation and calibration for the captured image.

36.-38. (Canceled)

39. (Previously presented) An apparatus, comprising:  
means for performing image capturing on a provided scanning object; and  
means for determining if a calibration parameter is stored and calculating a calibration parameter if no calibration parameter is stored, for using the calibration parameter obtained at the determining to perform compensation and calibration for the captured image, and for completing image scanning for the object and repeating the image capturing and the compensation without further performing the determining.

40. (Previously presented) The apparatus of claim 39, further comprising:  
means for performing pre-scanning and calculating a calibration parameter when the outcome of the determining is negative; and  
means for storing the calculated calibration parameter in the control module.

41. (Previously presented) The apparatus of claim 40, further comprising:  
means for storing the calibration parameter via a control module; and  
means for using the stored calibration parameter to perform compensation and calibration for the captured image.

42. (Previously presented) The apparatus of claim 40, further comprising:  
means for storing the calibration parameter via a control module comprising a selected system file; and  
means for using the stored calibration parameter to perform compensation and calibration for the captured image.